SPYWOLF

Security Audit Report

Completed on

September 26, 2022

MADE IN USA 🇺🇸

OVERVIEW

This audit has been prepared for **MetaRuffy** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✔ Contract's source code
- ✔ Owners' wallets
- ✔ Tokenomics
- ✔ Team transparency and goals
- ✔ Website's age, code, security and UX
- ✔ Whitepaper and roadmap
- ✔ Social media & online presence

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

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MetaRuffy

PROJECT DESCRIPTION

According to their website:

MetaRuffy is an open world in the Metaverse based on the latest technology which merges together, web3.0, blockchain, VR and AR. With Meta Ruffy you enter a world, where the creation of entertainment is the essence within its metaverse.

The creation and full development of Ruffy World is the main goal and the ultimate milestone for the project.

A fully developed and fully functional Ruffy World environment with all its assets in place is the big picture.

Release Date: Presale starts on Oct. 03, 2022

Category: Metaverse

CONTRACT INFO

Token Name
METARUFFY

Symbol
MR

Contract Address
0xa4Cb3ef5f41a4D89D6FCed22ea8a1C57957629Aa

Network
Ethereum

Language
Solidity

Deployment Date
Sep 17, 2022

Verified?
Yes

Total Supply
300,000,000,000

Status
Not launched

TAXES

Buy Tax
4%

Sell Tax
4%

*Taxes can be changed in future

Our Contract Review Process

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

CURRENT STATS

(As of Sep 26, 2022)

Liquidity

Not added yet

Burn

17.33% of total supply

Status:

Not Launched!

MaxTxAmount

No limit

DEX:

Uniswap

LP Address(es)

Liquidity not added yet

TOKEN TRANSFERS STATS

Transfer Count	11
Uniq Senders	2
Uniq Receivers	4
Total Amount	599999999999.9999 MR
Median Transfer Amount	24999999999.999996 MR
Average Transfer Amount	54545454545.45454 MR
First transfer date	2022-09-17
Last transfer date	2022-09-25
Days token transferred	2

SMART CONTRACT STATS

Calls Count	35
External calls	7
Internal calls	28
Transactions count	16
Uniq Callers	3
Days contract called	3
Last transaction time	2022-09-25 23:05:23 UTC
Created	2022-09-23 22:08:11 UTC
Create TX	0x29ce5beb4bfcc7ea40109468b6453ad347db0a474b59f96064238361e27a93f4
Creator	0x49273b37ad4bbb7b85c292a540f39e4cac9e6277

FEATURED WALLETS

***Owner address**	0x49273b37ad4bbb7b85c292a540f39e4cac9e6277
***Marketing fee receiver**	0x0a5e73df3836677eb7e22cb782e1cbfdc56da22a
***Dev fee receiver**	0x26f3f79e5777c72de8432e438adcfb1c799064c9
LP address	**Liquidity not added yet**

*Address can be changed in future

VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed

THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

⚠ Medium Risk

If marketingDivider variable is set above 100 and contract's token balances are above the swapThreshold, selling will fail.

```
event UpdateMarketingDevider(uint256 _newPercent);
function updateMarketingDivider(uint256 _newPercent) external onlyOwner {
    require(_newPercent >= 25, "Marketing divider is low.");
    marketingDivider = _newPercent;
    emit UpdateMarketingDevider(_newPercent);
}

function sendETHToWallets() internal {
    uint256 balance = address(this).balance;
    if(balance > 0) {
        uint256 _marketingFee = balance.mul(marketingDivider).div(10**2);
        uint256 _devFee = balance.sub(_marketingFee);
        if(_marketingFee > 0) {
            payable(marketingFeeReceiver).transfer(_marketingFee);
        }
        if(_devFee > 0) {
            payable(devFeeReceiver).transfer(_devFee);
        }
    }
}
```

- Recommendation:
  - Restrict the marketingDivider variable values in scope from 0 to 100.

Informational

Owner can set buy and sell fees up to 10%.
Combined buy+sell=20%.

```
event UpdateBuyFees(uint256 _marketingFee, uint256 _devFee, uint256 _burnFee);
function updateBuyFees(uint256 _marketingFee, uint256 _devFee, uint256 _burnFee) external onlyOwner {
    require(_marketingFee.add(_devFee).add(_burnFee) <= 10, "METARUFFY: Max fee limit exceeds");
    buyMarketingFee = _marketingFee;
    buyDevFee = _devFee;
    buyBurnFee = _burnFee;
    emit UpdateBuyFees(_marketingFee, _devFee, _burnFee);
}

event UpdateSellFees(uint256 _marketingFee, uint256 _devFee, uint256 _burnFee);
function updateSellFees(uint256 _marketingFee, uint256 _devFee, uint256 _burnFee) external onlyOwner {
    require(_marketingFee.add(_devFee).add(_burnFee) <= 10, "METARUFFY: Max fee limit exceeds");
    sellMarketingFee = _marketingFee;
    sellDevFee = _devFee;
    sellBurnFee = _burnFee;
    emit UpdateSellFees(_marketingFee, _devFee, _burnFee);
}
```

Owner can exclude address from fees.

```
function exemptFromFee(address account, bool _exempt) external onlyOwner {
    isFeeExempt[account] = _exempt;
    emit ExemptFromFee(account, _exempt);
}
```

RECOMMENDATIONS FOR

GOOD PRACTICES

1. Consider fundamental tradeoffs
2. Be attentive to blockchain properties
3. Ensure careful rollouts
4. Keep contracts simple
5. Stay up to date and track development

Meta Ruffy

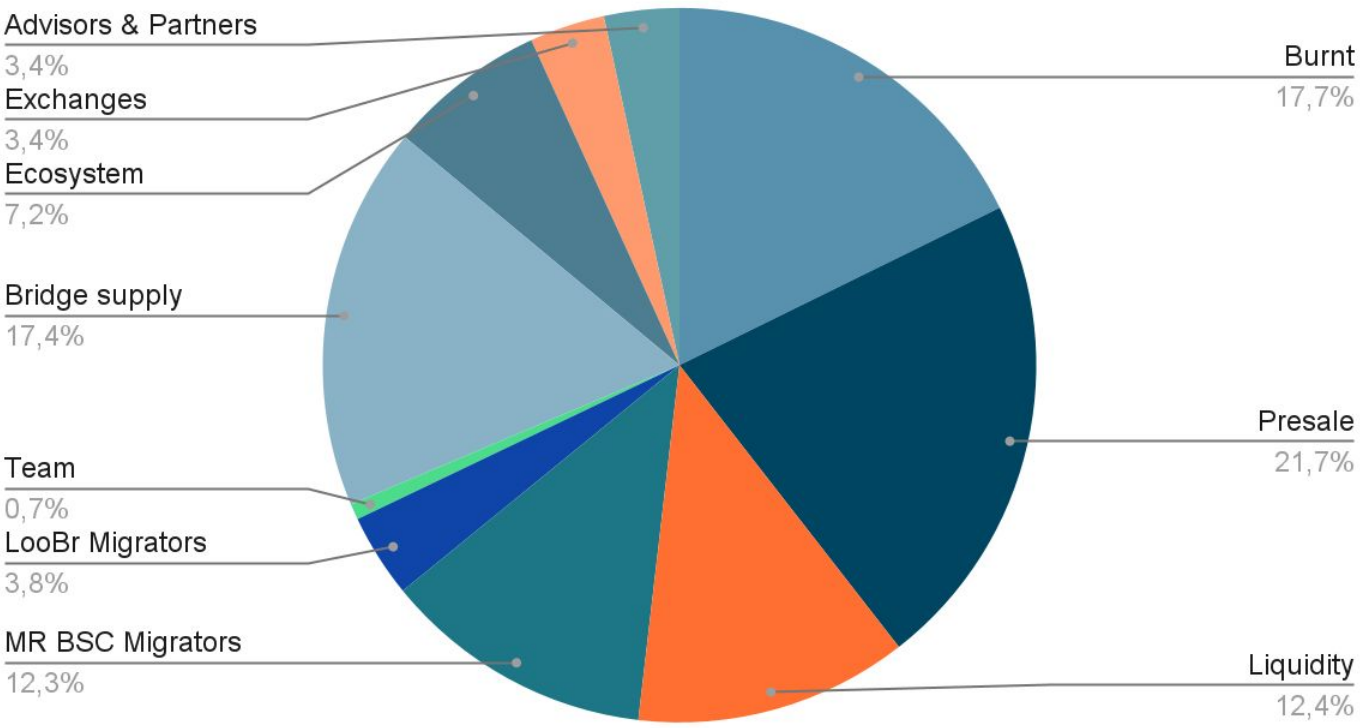
GOOD PRACTICES FOUND

- ✔ The owner cannot mint new tokens after deployment
- ✔ The owner can set a transaction limit, but can’t lower it than 1% of total supply
- ✔ The smart contract utilizes "SafeMath" to prevent overflows

*The following tokenomics are based on Pinksale's presale page:

- 17.33% - Burnt
- 21.23% - Presale
- 12.1 - Liquidity
- 12% - MR BSC Migrators
- 3.66% - LooBr Migrators
- 0.66% - Team
- 16.6% - Bridge supply
- 6.6% - Ecosystem
- 3.3% - Exchanges
- 3.3% - Advisors & Partners

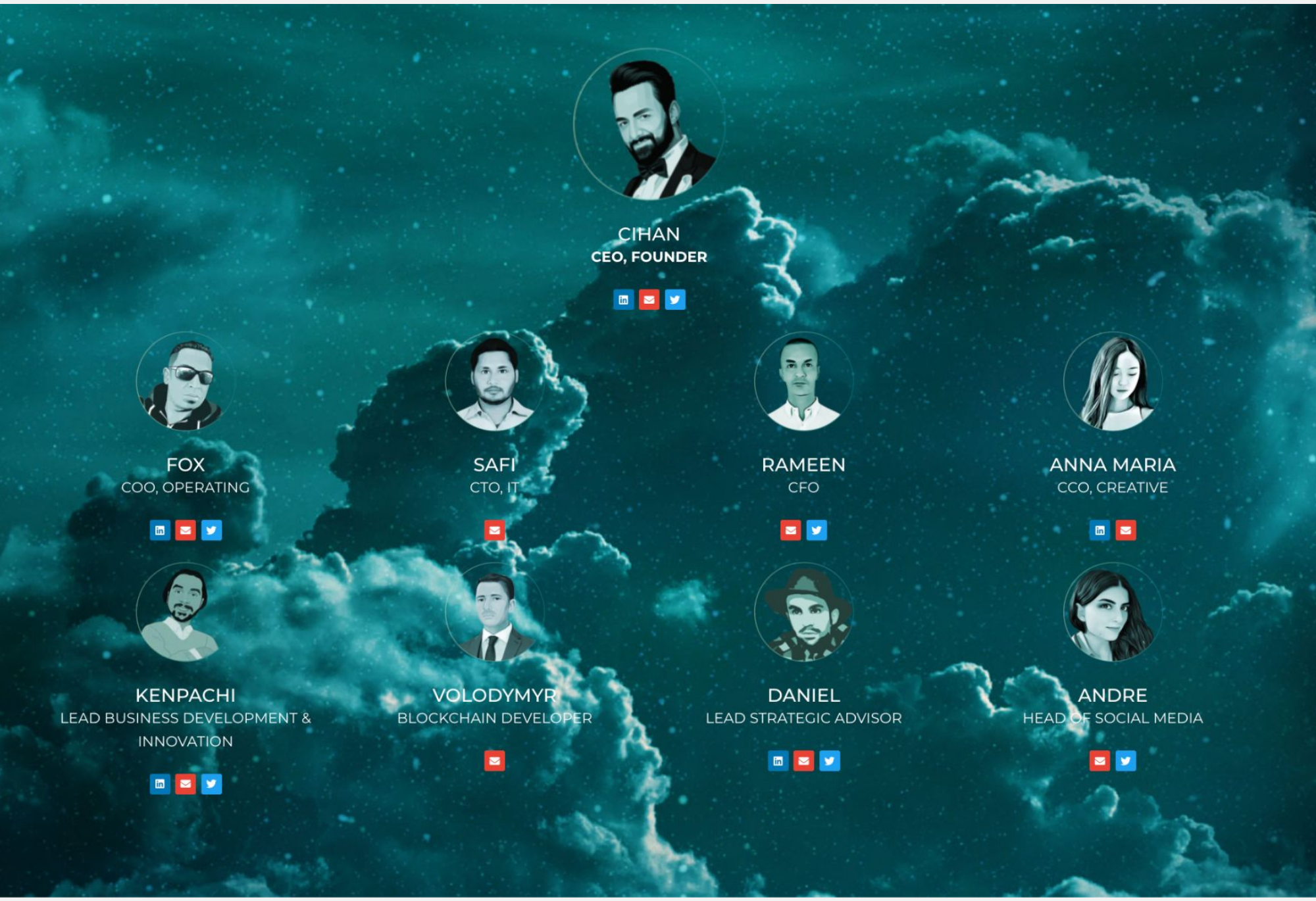
Tokens distribution



TOKENOMICS

THE TEAM

✅ The team at MetaRuffy is publicly doxxed on their website and socials with a KYC from Pinksale.



WEBSITE

Website URL
https://metaruffy.io/

Domain Registry
https://key-systems.net

Domain Expiration
Expires on 2023-01-02

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

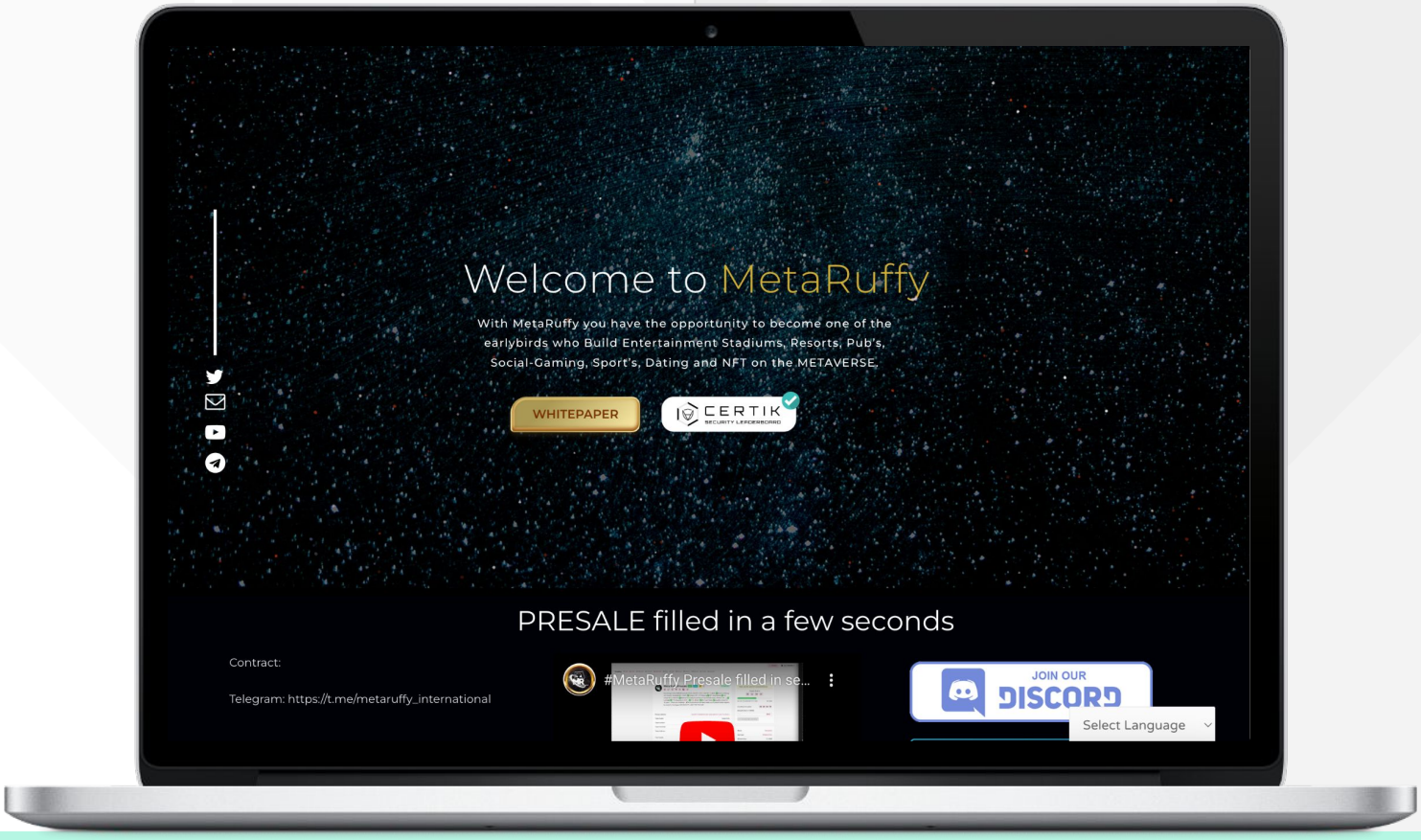
Design
Very nice color scheme and overall layout.

Content
The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper
Well written, explanatory.

Roadmap
Yes, goals set without time frames.

Mobile-friendly?
Yes



metaruffy.io

SOCIAL MEDIA

& ONLINE PRESENCE

ANALYSIS

Project's social media pages are very active with activity from organic users

Twitter

@meta_ruffy

- 13 300 followers
- Very active
- Posts few times a day

Discord

@metaruffy

- 1538 members
- Active community and mods

Telegram

@metaruffy_international

- 11 528 members
- Active members
- Active mods

Medium

- Not available

SPYWOLF

CRYPTO SECURITY

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ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.
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No applications were reviewed for security. No product code has been reviewed.